

Water Quality Assessment Decisions And Listing of Waterbodies by Categories Using EPA 2002 Consolidated Methodology (October 2002)

For the development of 2002 303(d) List of Impaired Waterbodies, Indiana has used a consolidated methodology as outlined in the November 2001 U.S. EPA “2002 Integrated Water Quality Monitoring and Assessment Report Guidance”. According to this methodology, each waterbody is placed in one of five categories depending on the degree to which it supports designated uses for full body contact recreation, and for protection of aquatic life, wildlife or human health. The actual 303(d) list of Impaired waterbodies that requires TMDLs development is included in Category 5. The primary data source and information for the 303(d) list in Category 5 and for the 4 other Categories is the IDEM’s database for the 305(b) Water Quality Assessment Report. A complete discussion on 303(d) listing and consolidated listing methodology for the waterbodies by categories is described in the IDEM’s document entitled Indiana’s 303(d) Listing Methodology for Impaired Waterbodies and Total Maximum Daily Load-September 2002. A brief description and explanation for listing of waterbodies by each category is as follows:

Description and Explanation for Listing of Waterbodies by Categories:

Category 1: Waterbodies that are attaining Water Quality Standards and No Designated Use is Threatened

IDEM has no waterbodies listed in this category.

IDEM has extensively sampled the surface water resource in Indiana, but has not sampled any one stream for all the designated uses. IDEM, therefore, has no waterbodies or waterbody segments listed in this category.

Category 2: Waterbodies Attaining Some Designated Uses, but have No or Insufficient Data to Determine if Other Uses are Attained.

This list is comprised of 960 waterbody segments that support some designated uses.

50 waterbodies and/or their associated waterbody segments from the draft 2002 303(d) list for the reasons described above have been moved and placed into this category. The list numbers for these waterbodies are:

List # 8, 9, 11, 12, 43, 53, 74, 93, 93, 93, 93, 97, 106, 206, 206, 206, 224, 279, 280, 281, 283, 285, 286, 287, 289, 299, 300, 302, 305, 307, 309, 322, 322, 322, 330, 331, 340, 341, 372, 373, 374, 375, 377, 380, 447, 459, 467, 472, 473 and 485.

Some of the waterbodies identified above may still remain on the 303(d) list Category 5 for one or more parameters that have sufficient data to indicate that a designated use is not being attained and that the waterbody requires a TMDL.

Category 3: Waterbodies with Insufficient or No Data to Determine a Designated Use.

This list is comprised of 688 waterbody segments for which water quality data or information is lacking or is insufficient to determine a designated use.

Category 4: Waterbodies Impaired or Threatened for One or More Designated Uses.

4A Waterbodies for which TMDLs have been Developed and Approved by EPA.

This list is comprised of 1 waterbody (2 waterbody segments) with 2 parameters for which TMDLs have been developed and approved by EPA Region 5.

4B Waterbodies Where Other Pollution Control Measures Could Result in Attainment Of the Water Quality Standards

This list is comprised of 9 waterbodies. Six waterbodies and/or their segments (List #s 466, 466, 94, 94, 93 and 93) listed on the 1998 and the draft 2002 303(d) list for thermal impairments have been placed in this category.

Three waterbodies and/or their segments (List #s 32, 351 and 379) from the 1998 and the draft 2002 303(d) list for organic enrichment, low dissolved oxygen and pathogens have been placed in this category.

It is anticipated that other existing programs within IDEM are more appropriate to address the water quality issues for the waterbodies listed in this category.

4C Water Quality Impairment is due to Pollution and Not Caused by a Pollutant.

This list is comprised of 16 waterbodies and/or waterbody segments..

One waterbody (List # 293) listed on the draft 2002 303(d) list has been moved into this category.

Category 5: Waterbodies Impaired or Threatened for One or More Designated Uses by One or More Pollutants and Require TMDL Development.

This list is now comprised of 427 waterbodies. The draft 2002 303(d) list had 485 waterbodies. All the impaired 427 waterbodies (or 1158 Waterbody segments) that require TMDL development have been sorted and listed in three separate tables.

- Indiana's 2002 303(d) List of Impaired Waterbodies.
List Sorted by TMDL Development Schedule (see Column 5)

- Indiana's 2002 303(d) List of Impaired Waterbodies.
List Sorted by 303(d) List Number (see Column 6)

- Indiana's 2002 303(d) List of Impaired Waterbodies.
List of Database Stream Segment Designations (see Column 1)

Changes were made o the draft 2002 303(d) list changes for 21 waterbodies wherein additional parameters were added. Additionally, changes were made to 20 303(d) list numbers, and some editorial changes were made to 9 waterbodies. The draft 2002 303(d) list numbers, and the kind of changes made to them are identified below:

- i. Draft 2002 303(d) list numbers to which additional parameters were added:

List # 4, 13, 16, 26, 36, 73, 75, 82, 90, 101, 102, 117, 135, 163, 166, 184, 184, 190, 194, 375 and 485.

- ii. Draft 2002 303(d) list numbers that were changed:

<u>List #</u>	<u>Changed to List #</u>	<u>List #</u>	<u>Changed to List #</u>
70	69	354	192
90	190	358	356
90	190	359	356
249	250	360	356
253	251	362	356
256	255	370	166
260	258	372	173
277	47	388	387
352	172	437	423
353	190	478	167

- iii. Draft 2002 303(d) list numbers to which editorial changes were made:

List # 5, 259, 339, 464, 470, 476, 477, 479 and 480.

De-Listing of Impaired Waterbodies:

Starting in 1998 to this date, IDEM has endeavored to sample, analyze and collect water quality data for a number of waterbodies listed on the 1998 303(d) List with the purpose to develop TMDLs. As part of this sampling and data collection effort, new data showed that many waterbodies, from one or more major river basins, were no longer impaired for one or more parameters and therefore could be de-listed from the 1998 303(d) List. It is estimated that 35 Waterbodies for 46 parameters will be de-listed from the 1998 303(d) List. A complete list of waterbodies with the respective 303(d) list numbers from several major river basins that will be de-listed from the 1998 303(d) list is provides in the attached table. However, some of these waterbodies will still remain on the 2002 303(d) list for other parameters that will not be de-listed.

List of Waterbodies and Parameters Recommended To Be De-Listed From 1998 303(d) List

Waterbody (WB)	303(d) List ID#	Major River Basin	Parameter(s)	Status
Big Blue River	164	EF. White River	Cyanide	New data supports de-listing
Cobb Creek / Breyfogel Ditch	53	Kankakee River	Dissolved Oxygen	New data supports de-listing
Pine Creek	58	Kankakee River	Dissolved Oxygen	New data supports de-listing
Burns Ditch	2	Lake Michigan	Pesticides, Lead	New data supports de-listing
Crawford Ditch	3	Lake Michigan	Copper, Oil & Grease	New data supports de-listing
Grand Calumet River (East Branch)	8	Lake Michigan	Lead, Copper	New data supports de-listing
Grand Calumet River (West Branch)	9	Lake Michigan	Lead, Dissolved Oxygen	New data supports de-listing
Indiana Harbor Canal (IHC)	11	Lake Michigan	Lead, Dissolved Oxygen	New data supports de-listing
Indiana Harbor Canal (Lake George Branch)	12	Lake Michigan	Dissolved Oxygen	New data supports de-listing
Little Calumet River	21	Lake Michigan	Cyanide, Pesticides	New data supports de-listing
Little Calumet River	23	Lake Michigan	Dissolved Oxygen	New data supports de-listing
Mather's Ditch	27	Lake Michigan	Endrin, Dissolved Oxygen	New data supports de-listing
Mud Creek	28	Lake Michigan	Ammonia	New data supports de-listing
St. Joseph River (portion from the Indiana Michigan border in Elkhart County to South Bend)	36	Lake Michigan	<i>E. Coli</i>	New data may support de-listing up to South Bend
Trail Creek	37	Lake Michigan	Cyanide	New data supports de-listing
Blue Creek	40	Maumee River	Dissolved Oxygen	New data supports de-listing
Garrett City Ditch	42	Maumee River	Ammonia	New data supports de-listing
Habegger Ditch	43	Maumee River	Ammonia	New data supports de-listing
Swartz-Carnahan Ditch	48	Maumee River	Dissolved Oxygen	New data supports de-listing
Tieman Ditch	49	Maumee River	Dissolved Oxygen	New Data supports de-listing
Cypress Creek	200	Ohio River	Chlordane	New data supports de-listing
Little Pigeon Creek	202	Ohio River	Ammonia	New data supports de-listing
Ohio River	203, 204	Ohio River	Lead	New data supports de-listing
Eel River	68	Wabash River	Cyanide	New data supports de-listing
Little Wildcat Creek/ Kelly West Ditch	78	Wabash River	Dissolved Oxygen	New data supports de-listing
Prairie Creek Ditch	83	Wabash River	Dissolved Oxygen	New data supports de-listing
South Fork Wildcat Creek	84	Wabash River	Cyanide	New data supports de-listing
Tippecanoe River	91	Wabash River	Cyanide	New data supports de-listing

**List of Waterbodies and Parameters Recommended
To Be De-Listed From 1998 303(d) List, (Cont'd.)**

Waterbody (WB)	303(d) List ID#	Major River Basin	Parameter (s)	Status
Wabash River	95	Wabash River	Cyanide	New data supports de-listing
Wildcat Creek	97	Wabash River	Cyanide, Lead	New data supports de-listing
Cicero Creek	104	WF. White River	<i>E. Coli</i>	New data supports de-listing
Mars Ditch	132	WF. White River	pH, Cyanide	New data supports de-listing
State Ditch	144	WF. White River	pH, Cyanide	New data supports de-listing
West Fork White River	148	WF. White River	Dissolved Oxygen, Ammonia	New data supports de-listing
West Fork White River	152	WF. White River	Cyanide	New data supports de-listing
West Fork White River	155	WF. White River	Cyanide	New data supports de-listing
West Fork White River	160	WF. White River	Lead	New data supports de-listing
Total WBs = 37			Parameters (Total) = 48	37 WBs for 48 parameters will be de-listed